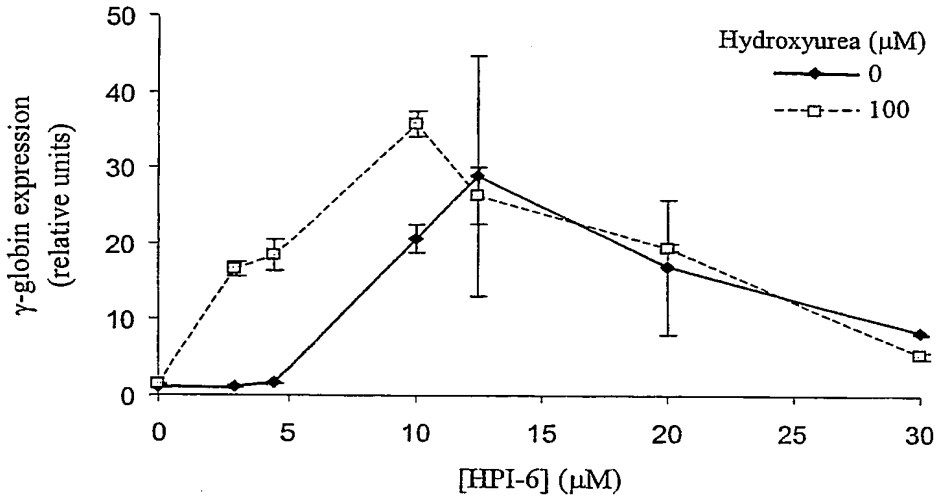
A.


γ-globin expression (relative units)
50
40
30
20
10
0
0
5
10
15
20
25
30
[HPI-6] (μM)
Hydroxyurea (μM)
0
100

B.

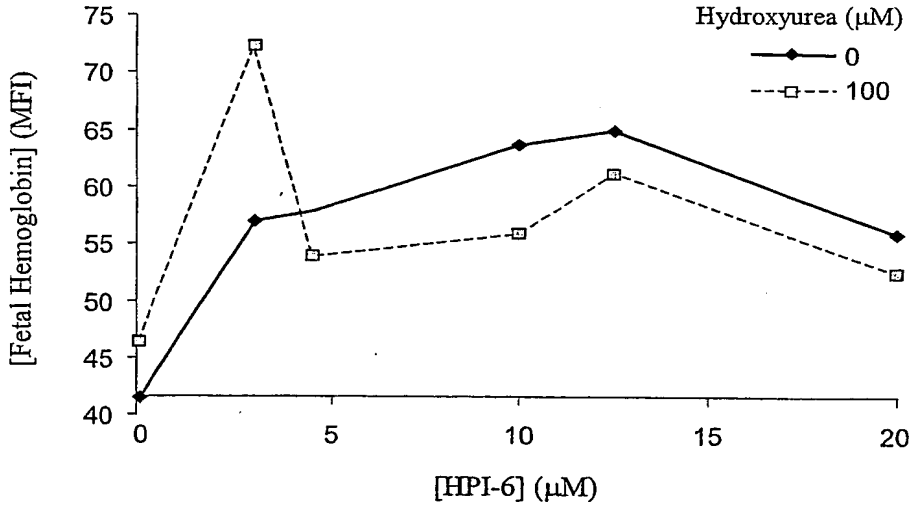

[Fetal Hemoglobin] (MFI)
75
70
65
60
55
50
45
40
0
5
10
15
20
[HPI-6] (μM)
Hydroxyurea (μM)
0
100

Figure 1

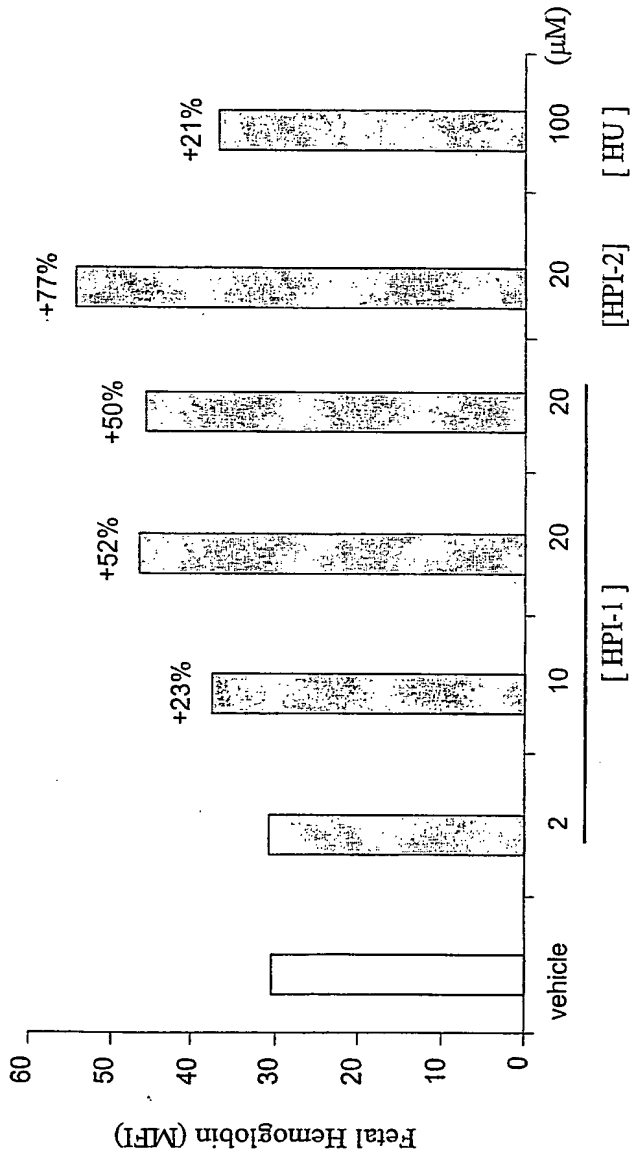
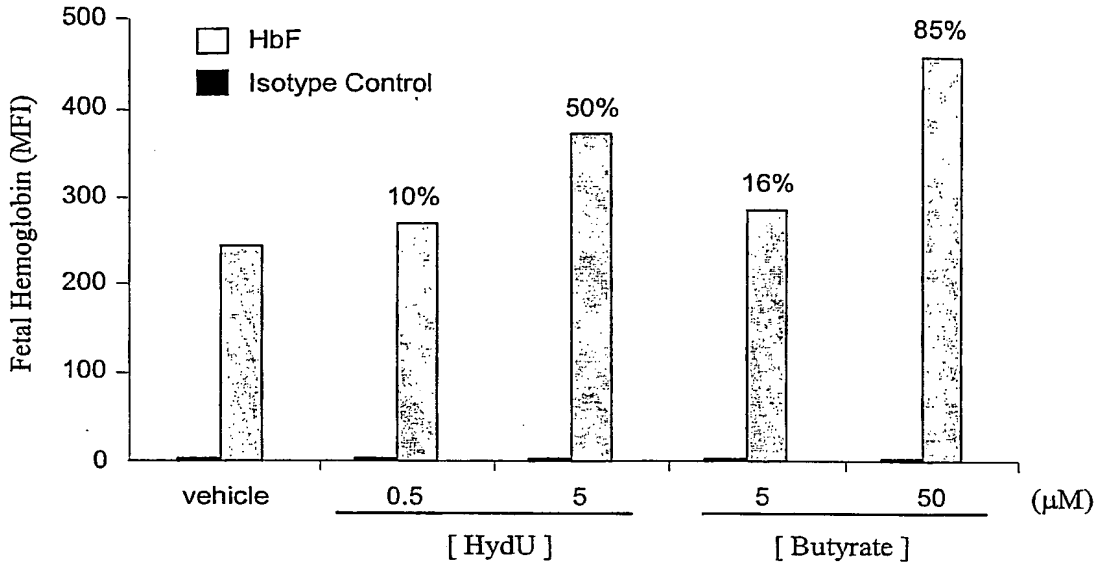

Fetal Hemoglobin (MFI)
0
10
20
30
40
50
60
vehicle
2
10
20
20
20
100
(μM)
[HPI-1]
[HPI-2]
[HU]
+23%
+52%
+50%
+77%
+21%

Figure 2

A.


HbF
Isotype Control
Fetal Hemoglobin (MFI)
500
400
300
200
100
0
10%
50%
16%
85%
vehicle
0.5
5
5
50
(μM)
[HydU]
[Butyrate]

B.

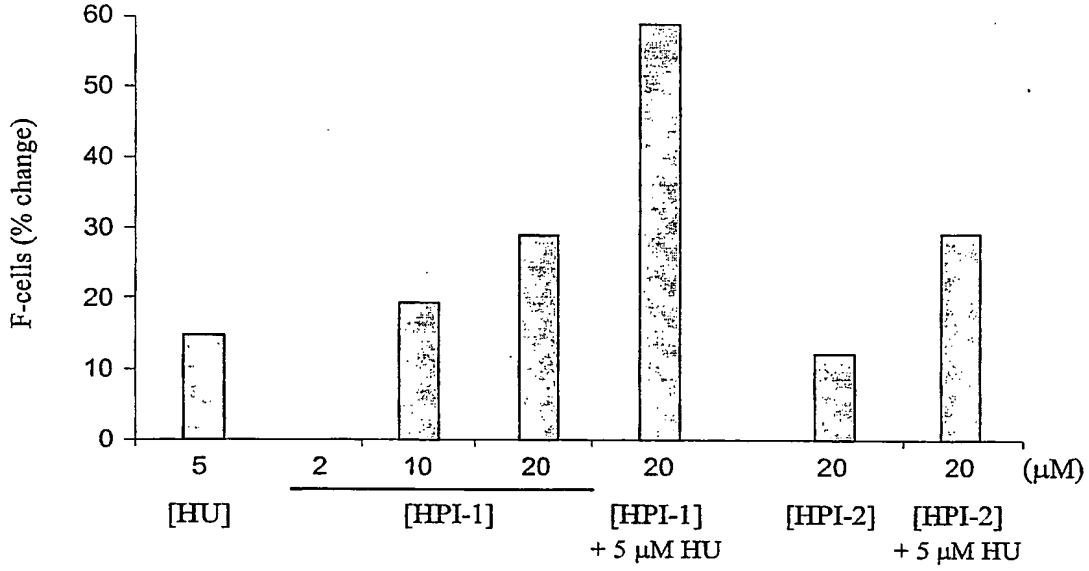
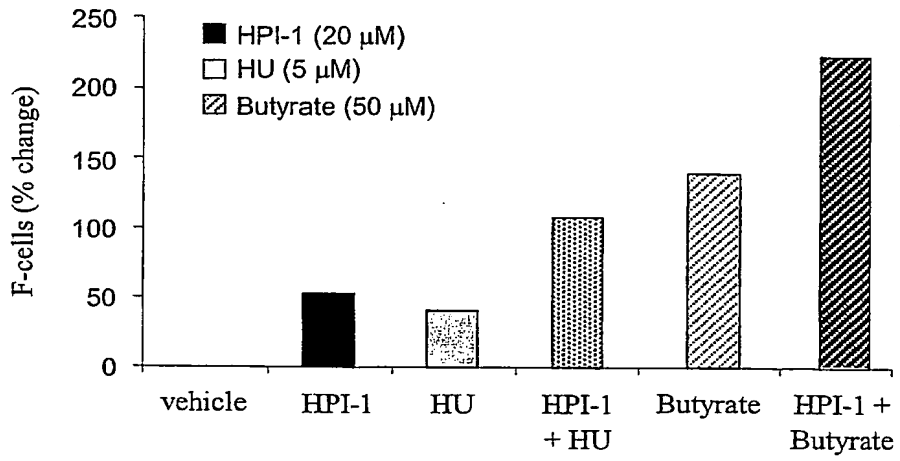

F-cells (% change)
60
50
40
30
20
10
0
5
2
10
20
20
20
20
(μM)
[HU]
[HPI-1]
[HPI-1]
+ 5 μM HU
[HPI-2]
[HPI-2]
+ 5 μM HU

Figure 3

A.


250
200
150
100
50
0
F-cells (% change)
HPI-1 (20 μM)
HU (5 μM)
Butyrate (50 μM)
vehicle
HPI-1
HU
HPI-1 + HU
Butyrate
HPI-1 + Butyrate

B.

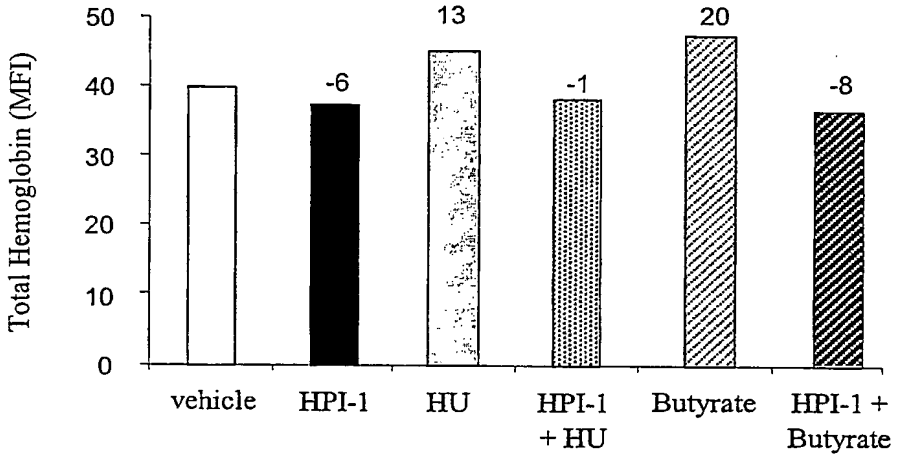

50
40
30
20
10
0
Total Hemoglobin (MFI)
-6
13
-1
20
-8
vehicle
HPI-1
HU
HPI-1 + HU
Butyrate
HPI-1 + Butyrate

Figure 4

A.
% F Cells
65
60
55
50
45
40
35
30
PBS
HU (5 μM)
DMSO
HPI-1 (20 μM)
HPI-1 + HU
B.
Fetal Hemoglobin (MFI)
250
200
150
100
PBS
HU (5 μM)
DMSO
HPI-1 (20 μM)
HPI-1 + HU
C.
% HbF Tetramer
30
25
20
15
10
5
0
PBS
HU (5 μM)
DMSO
HPI-1 (20 μM)
HPI-1 + HU

Figure 5

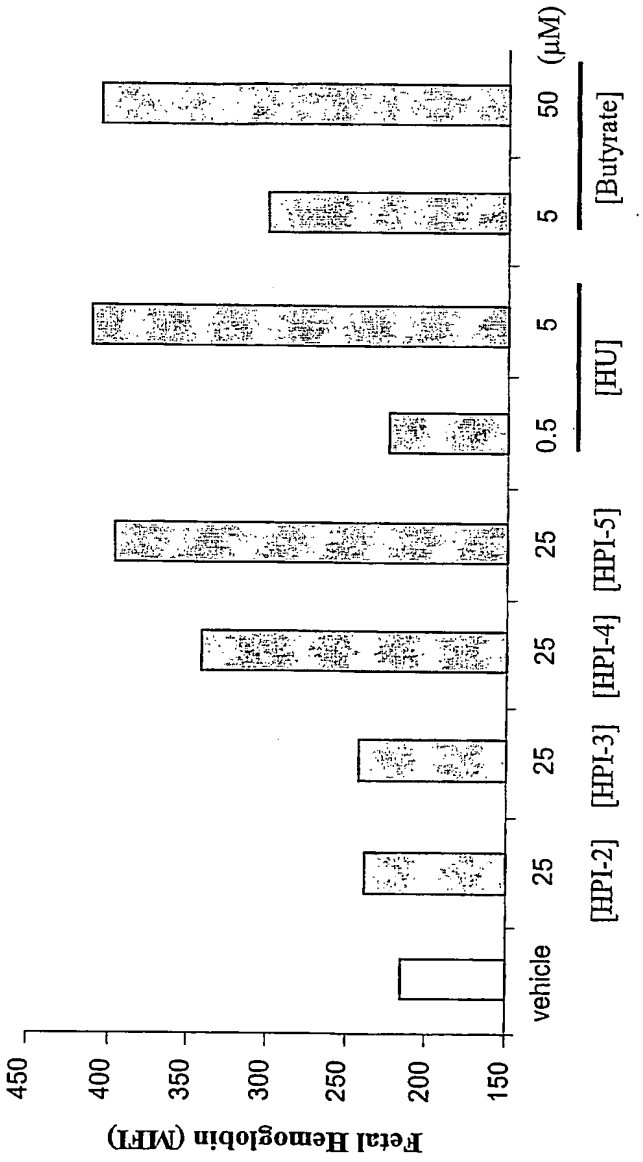

Fetal Hemoglobin (MFI)
450
400
350
300
250
200
150
vehicle
25
25
25
25
0.5
5
5
50
(μM)
[HPI-2]
[HPI-3]
[HPI-4]
[HPI-5]
[HU]
[Butyrate]

Figure 6